

General Welder Trade Test

Major Assessment Criteria of Practical Test

(Version : TWD-AC-EN-01)



此文件關於普通焊接工技能測試實務測試主要評分範圍。

如需索取此文件的中文版本，請致電 2100 9000 與香港建造業工藝測試中心聯絡。

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A. Technical Assessment :

Area of Assessment	Major Assessment Criteria	Score %
(1) Understanding of drawing and specification of works	Read the test papers, drawing(s) and requirement(s) and works in accordance with the test drawing(s)/ requirement(s)/ specification(s), including dimensions of workpieces, assembly of workpieces*, welding positions* and etc.	4%
(2) Preparation prior to works	Preparation prior to works including checking tools and materials, and complete the checklist	3%
(3) Works procedure, accuracy and quality	<p><u>Shielded Metal Arc Welding**</u></p> <p>Works procedure including adjusting the current, tack welding and correct welding procedure</p> <p>Accuracy and quality of works including accuracy of bead width, technique of welding including degree of fusion, leg length of fillet weld*, undercut*, overlap, porosity or inclusion and degree of arc strike(s), weld slag and spatter</p> <p><u>Oxy-acetylene Cutting**</u></p> <p>Works procedure including setup the oxy-acetylene cutting equipment, checking and regulating gas pressure, adjusting the flame, cutting sequence, disassembly the equipment</p> <p>Accuracy and quality of works including technique of adjusting the flame, cutting skill, accuracy of cutting width and alignment, straightness of cutting straight line/ smoothness of cutting circular arc, cutting face roughness and perpendicularity, cleanliness of cutting face</p>	85%
(4) Application and handling of materials	Proper choose and use of materials including electrode* and treatment of rust on weldment before welding and etc.	2%
(5) Proper use of tools and equipment	Proper use of tools and equipment	2%
(6) Housekeeping after work	Housekeeping after work including cleanliness and tidiness of workplace, tools and materials	4%

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Major Assessment Criteria of Practical Test (Cont.)

A. Technical Assessment (Cont.) :



Candidate who fails to comply with any specified requirements listed below during the test will lead to failure of the test.

Specific Requirement	Test/ Assessment Items
* Failing in <u>any ONE item(s) (or above) listed on the right column</u> will lead of fail of the test	Assessment item(s): 1. Assembly of workpieces 2. Welding positions 3. Leg length of fillet weld 4. Undercut 5. Proper choose and use of electrode
** Failing in <u>any ONE item(s) (or above) listed on the right column</u> will lead of fail of the test	Test item(s): 1. Shielded Metal Arc Welding 2. Oxy-acetylene Cutting

B. Safety Assessment :



Candidate who fails to comply any safety requirements or performs any unsafe act during the test, marks will be deducted in accordance with the degree and recurrence of unsafe act and will lead to fail of the test.

Violations/ Dangerous Conditions to Avoid	
Applies to pre-work risk assessment	<ul style="list-style-type: none"> Failed to identify and remove the potential risk e.g. flammable materials, from work station
Applies to use and handling of tools/ equipment	<ul style="list-style-type: none"> Improper or without using the welding face shield or hand shield/ failed to close the welding screen at work Dangerous operation(s) during oxy-acetylene flame cutting Without installation of flashback prevention device (flashback arrester) during oxy-acetylene flame cutting Improper/ without use of local exhaust ventilation during welding
Applies to whole test	<ul style="list-style-type: none"> Improper/ without use of safety helmet/ safety helmet chin strap/ welding gloves/ leather apron/ welding sleeves/ safety goggles/ gas welding safety goggles/ ear plugs

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Major Assessment Criteria of Practical Test (Cont.)

Overall Assessment Framework:

Assessment Item	Passing Requirements
A. Technical Assessment	Achieve 60 marks out of 100 marks; and meet the specific requirement(s) in specified item(s) of the technical assessment.
B. Safety Assessment	Achieve 6 marks out of 10 marks.

Candidate must fulfil the passing requirements of both Part A and B listed above to achieve an overall “Pass” grade in the practical test.

Precautions

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